## Claims Ammendments

Claim 1(Currently amended) What we claim as our invention is: A continuous flow psychrophilic anaerobic digester, miero-filtration integrated aquaculture waste treatment system comprised of:

- a. An anaerobic digester to capture waste, fitted with augers to-mix-digested slurry with waste stream.
- -b. Valves to control the flow of effluent to allow sludge to settle before effluent is released:
  - -c. Micro-filter to filter solids and pathogens from effluent.
- d. Aquatic plants for filtering of effluent. Over flow canal for effluent to flow into.

Claim 2(withdrawn) A system according to claim 1 where valve for effluent is closed before receiving waste stream.

Claim 3(withdrawn) A system according to claim 1 where waste is mixed daily with augers.

Claim 4(withdrawn) A system according to claim 1 where waste is allowed to settle at least eight hours before opening valve to allow effluent to flow out.

Claim 5(original) A system that converts existing manure pits, i.e. lagoons into anaerobic digesters by covering the pit with an airtight diaphragm secured to a concrete beam where diaphragm is kept under a negative pressure.

Claim 6(original) A system according to claim 5 that protects against environmental contamination by removing the danger of the diaphragm being lifted by biogases in flood stage.

Claim 7(original) A system according to claim 5 where the concrete beam is plumbed to receive waste, to pump off biogas, to provide for effluent overflow, and to remove finished slurry.

Claim 8(currently amended) A system according to claim 5 where biogas is pumped off into storage and an emergency photovoltaic pump located on vent is used during flood stage to keep diaphragm under vacuum.

Claim 9(currently amended) A system for effluent overflow Of aquatic plant filtering of effluent the system comprised of:

- a. A canal adjacent to digester
- b. Canal is lined and covered with a greenhouse
- e. An overhead conveyor harvester-

Claim 10(currently amended) A system according to claim 9 where canal is lined and covered to prevent ground water contamination.

Claims 11-17 (canceled)